



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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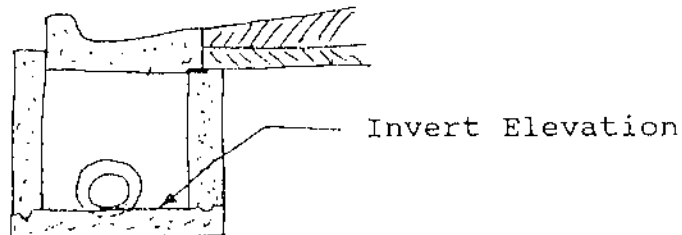
GARIAND B. GARRETT JR.
SECRETARY

MEMO TO: Roadway Design Project Engineers
FROM: Harry Thompson, PE *[Signature]*
DATE: November 14, 1996
SUBJECT: Guidelines for Placing Invert Elevations on Plans

- On projects not yet sent to Hydraulics:
At the time you send your plans to Hydro, let them know you plan to show invert elevations on the plans. This can be added to the form letter.

Hydro should return the invert elevations in either a separate file or in the hydraulic design file on a separate level.

- The invert elevation should be placed on the drainage summary sheet. (See attachment)
- Show only the invert elevation of the drainage structure.



- Show the invert elevation on cross-pipe at the inlet and outlet end.
- Do not show invert information on the plan sheet or the profile sheet.
- We are initially going to try this on one project per project engineer group. The list of projects are also attached.
- A disclaimer should be included in the proposal. The attached example can be sent to Design Services to be included in the P, S & E package.



Roadway Design Project Engineers
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Let me know if you have any questions or would like to discuss this.

Attachments

HMT

cc: Mr. Tom Shearin, PE (w/ atta)
Mr. Len Hill, PE (w/ atta)
Mr. Don Morton, PE (w/ atta)
Mr. Archie Hankins, PE (w/ atta)
Mr. Bob Brown, PE (w/ atta)
Mr. Victor Barbour, PE (w/ atta)

Projects to Include Invert Elevations

Flowers - U-2416

Lassiter - U-2550A

Stepney - U-2581A

Sykes - R-3106D

Barbour - U-2571

Taylor - U-2720

Bennett - R-2000CB

Smith - U-2912

Disclaimer

Note:

The bidder or contractor is cautioned that the drainage invert elevations shown in the **Drainage Summary Sheets** are for information only. The final invert elevations will be determined during construction of this project. The contractor shall have no claim for additional compensation or for an extension of time for any reason resulting from this information.